

Appendix D

Framework Classification Code:

Field definitions and Valid Entries

April 19, 2002

The Framework Classification Code (FCC) is a 3-character field in the framework coverage. The initial value in the FCC field is derived from data that is already associated with the feature. As additional editing takes place, the FCC value will be updated based on the definitions described in this document. New features added to framework will be given the appropriate FCC value based on these same definitions. New Classification Codes may also be created as needed.

The FCC is divided into 7 basic themes;

Roads & Trails

Railroads

Power Lines & Power Transmission Lines

Landmarks, Airports, Structures

Hydrography

Non-visible Boundaries

Unclassified

The seven basic themes are further subdivided, listed and defined below.

ROADS

A00 – Future road under construction

A1* – Limited access Interstates and non-Interstates such as I 75, I 94, US 27, M 39

Valid Codes:

A11 – Limited access Interstate

A12 – Limited access non-Interstate

A13 – Ramp to or from a limited access highway

A2* – US Highways & State Highways such as M 52, US 12. (Not limited access)

Valid Codes:

A21 – Divided unlimited access US Highways & State Highways

A22 – Undivided unlimited access US Highways & State Highways

A23 – Ramp to or from an unlimited access highway

A3* – These roads are classified based on **National Functional Classification (NFC)**. NFC is an attribute of the Framework coverage. The Michigan Department of Transportation assigned each NFC value. NFC is a planning tool which federal, state and local transportation agencies have used since the late 1960's. The Federal Highway Administration (FHWA) developed this system of classifying all streets, roads and highways according to their function. The FHWA publication,

“Highway Functional Classification: Concepts, Criteria and Procedures”, provides the basis for much of the following information.

Principal arterials are at the top of the NFC hierarchical system. Principal arterials generally carry long distance, through-travel movements. They also provide access to important traffic generators, such as major airports or regional shopping centers.

Minor arterials are similar in function to principal arterials, except they carry trips of shorter distance and to lesser traffic generators.

Collectors tend to provide more access to property than do arterials. Collectors also funnel traffic from residential or rural areas to arterials.

Valid Codes:

A31 – Divided principal arterial.

A32 – Undivided principal arterial.

A33 – Divided minor arterial.

A34 – Undivided minor arterial.

A35 – Divided collectors.

A36 – Undivided collectors.

A4* – Local roads primarily provide access to property. Local certified roads are classified based on NFC. Uncertified roads are usually private, and have no NFC value.
EXAMPLES: Residential streets; lightly-traveled county roads.

Valid Codes:

A41 – Divided local certified roads.

A42 – Undivided local certified roads.

A43 – Divided local uncertified roads, usually private roads.

A44 – Undivided local uncertified roads, usually private roads.

A45 – Boulevard turnarounds. These features allow traffic to pass through boulevard medians.

A49 – All other features that were originally classified as a road feature in TIGER or MIRIS but do not match any of the criteria used to classify framework roads. More research is needed to better classify these roads.

A5* - Roads with special characteristics, these roads may or may not have been updated in the current framework version.

Valid Codes:

A51 – Unnamed, non PR (Physical Reference Number) roads within Cemeteries.

A52 – Unnamed, non PR internal drives around malls, commercial sites, retail sites, industrial sites, office sites, schools, colleges, and universities.

A53 – Unnamed, non PR driveways. A driveway is defined as a road that serves only one residence.

A54 – Internal roads of Federal, State and Local parks and campgrounds. These roads may have names and PRs.

A55 – Unnamed, non PR roads in residential areas. IE: apartment complexes, mobile home communities, and new developments.

A56 – Unnamed, non PR two-track roads or vehicular trails.

A6* - Non-vehicular transportation features, these features may or may not have been updated in the current framework version.

Hiking trails
Bike trails/paths
Horse riding trails
Snowmobile trails
Cross country ski trails
Ferries
Pedestrian overpasses

RAILROADS - These features may or may not have been updated in the current framework version.

Valid Codes:

B00 – Active/Inactive status unknown. Railroad features in framework are identified based on their original MIRIS/TIGER classification. It is the goal of the framework to enhance this information using the active/inactive criteria described below.

B1* - Active rail lines.

Valid Codes:

B11 – Main

B12 – Spur

B13 – Yard

B2* - Inactive rail lines.

Valid Codes:

B21 – Rails still in place.

B22 – Rails removed.

PIPE LINE & POWER TRANSMISSION LINE - These features may or may not have been updated in the current framework version.

Valid Codes:

C00 – Miscellaneous ground transportation. These features originally classified by TIGER.

C10 – Enclosed pipe above ground, or in special conditions, below ground when marked by a cleared right-of-way and signage. These features originally classified by TIGER.

C20 – High voltage electrical line, on towers, situated on cleared right-of-way. These features originally classified by TIGER.

LANDMARK

Valid Codes:

D00 - Landmark originally classified by TIGER, category may or may not be known, refer to Census Feature Classification Code (CFCC) value for more information.

GREAT LAKES STRUCTURES - These features may or may not have been updated in the current framework version.

Valid Codes:

D11 – River mouth breakwater

D12 – Harbor breakwater

MARINA STRUCTURES - These features may or may not have been updated in the current framework version.

D21 – Head or Main pier

D22 – Finger pier or slip

AIRPORT - These features may or may not have been updated in the current framework version.

Valid Codes:

D51 – Airport or airfield originally classified by TIGER.

D52 – Public use airport classified by MDOT Bureau of Aeronautics. This classification will take precedence over the TIGER classification (D51) where applicable.

HYDROGRAPHY - These features may or may not have been updated in the current framework version. The MIRIS LEVEL attribute value was given precedence over the TIGER classification and was used to classify hydrographic features where possible.

Valid Codes:

H00 – Hydrographic feature from TIGER not in original MIRIS.

H01 - Feature exists to delineate water boundaries within a hydrological system. (i.e. arcs used to separate a river from the connected lake.)

H1* - Great Lakes shoreline

Valid Codes:

H11 – Great Lakes shoreline from MIRIS level 12.

H12 – Great Lakes shoreline river mouth

H2* - Lake, Pond and Island shoreline.

Valid Codes:

H21 – Lake and Pond shoreline from MIRIS level 6.

H22 – Sewage Disposal Pond as described on United State Geological Survey (USGS) Topographic Quadrangle maps.

H23 – Islands in inland lakes or ponds.

H24 – Intermittent lake or pond shoreline.

H3* - River/stream including islands in rivers.

Valid Codes:

H31 - Rivers and streams from MIRIS level 7.

H33 – Islands in rivers and streams.

H34 – Islands that are both a river and land boundary.

H4* - Drains and intermittent streams.

Valid Codes:

H41 – Drains and intermittent streams from MIRIS level 8, undetermined ownership.

H42 – County Owned Drains – open.

H43 – County Owned Drains – underground.

NONVISIBLE BOUNDARIES - These features came from TIGER or were added by MIC to delineate a boundary where no physical feature exists. These classifications have been assigned in a hierarchical fashion in order of importance. Even though a non-visible feature is associated with a certain type of polygon boundary, it may also represent additional types of polygon boundaries. To create polygons from the Framework, you must still use the appropriate fields for the theme you want to create. For example, to select the features that make up the City/Township boundaries, you would use the query; fmcdl <> fmcdl

F1* - Jurisdictional boundaries

Valid Codes:

F11 – Feature exists to delineate State boundary. Will also delineate other polygonal boundaries.

F12 - Feature exists to delineate County boundary. Will also delineate other polygonal boundaries.

F13 - Feature exists to delineate Minor Civil Division (MCD) (City/Township) boundary. Will also delineate other polygonal boundaries.

F14 - Feature exists to delineate Village boundary. Will also delineate other polygonal boundaries.

F15 - Feature exists to delineate Census Designated Place (CDP) boundary. May also delineate other polygonal boundaries.

F16 - Feature exists to delineate American Indian Reservation boundary. May also delineate other polygonal boundaries.

F2* - School district boundaries

Valid Codes:

F21 - Feature exists to delineate School District boundary. May also delineate other polygonal boundaries.

F3* - Political boundaries

Valid Codes:

F31 - Feature exists to delineate United States Congressional boundary. May also delineate other polygonal boundaries.

F32 - Feature exists to delineate State Senate boundary. May also delineate other polygonal boundaries.

F33 - Feature exists to delineate State House boundary. May also delineate other polygonal boundaries.

F34 - Feature exists to delineate Voter Precinct boundary. May also delineate other polygonal boundaries.

F4* - Census boundaries

Valid Codes:

F41 - Feature exists to delineate Census Tract boundary. May also delineate other polygonal boundaries.

F42 - Feature exists to delineate Census Block Group boundary. May also delineate other polygonal boundaries.

F43 - Feature exists to delineate Census Block boundary. May also delineate other polygonal boundaries.

F9* - Other

Valid Codes:

F91 - Zipcode Boundaries

F99 - Feature originally from TIGER. Does not delineate any of the above listed polygons. Refer to the Census Feature Classification Code (CFCC) value of the feature for more information.

UNCLASSIFIED

Valid Codes:

Z00 – Feature is unable to be classified at this time.

Z01 – ACT51 classifies this as a road, framework does not. More research is needed.

Z02 – MIRIS originally classified this as a road, TIGER classified it as a non-visible. More research is needed.

X00 – Feature has been researched during repositioning process and is still unknown.

X10 – Feature marked for deletion. This is a feature that a Framework partner has determined should be deleted. The feature must be retained until the partner's edits have been integrated into the master copy. After reintegration, the feature will be deleted.